I M B M

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Istanbul Discrete Mathematics Meetings

Carl Feghali
University of Bergen

Friday, 19 April 2019

10.30: *Around Cereceda's conjecture*
Abstract: Cereceda conjectured in 2007 that the reconfiguration graph of the $(k+2)$-colourings of a k-degenerate graph on n vertices has diameter $O(n^2)$. I will discuss what is known on this conjecture and present two short proofs addressing special cases.

Friday, 26 April 2019

10.30: *Problems and Results in Kempe equivalence of colourings*
Abstract: Let G be a graph with a colouring alpha, and let a and b be two colours. Then a connected component of the graph induced by vertices coloured a or b is called a Kempe chain. The operation of swapping the colours of a Kempe chain is called a Kempe change. Two colourings are Kempe equivalent if they can be obtained from one another by a sequence of Kempe changes. I will present some problems and results in this area.

Place : IMBM Seminar Room, Bogazici University South Campus